Stelios Daveas

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EDUCATION

UNIVERSITY OF ATHENS
M.S in Computer Science
2017-present | Athens, GR

UNIVERSITY OF ATHENS
B.S in Computer Science
2010-2016 | Athens, GR

SKILLS

PROGRAMMING
Expert
C/C++ • Python • Solidity
Advanced
Java • LUA • Bash • LaTeX
Intermediate
Rust • Matlab

CONCEPTS
OOP • Data-Oriented Programming
Parallel Programming • Network Programming • Smart Contracts

DATABASES
PostgreSQL • MySQL • MariaDB
MongoDB

ENVIRONMENTS
Linux • Git • Vim • Tmux • Docker

LANGUAGES
English (B2) • German (B1)
Greek (native)

EXPERIENCE

NCSR DEMOKRITOS | Software Engineering
2016 – present | Athens, GR

- Head engineer at in-house simulation engine, used in 5+ H2020 European projects.
- Advanced status from TRL 5 to TRL 7, contributed 48K LOC of high-performance code at a 300K LOC codebase, performed maintenance, migrated from C++03 to C++17 standards.
- Code review on GitLab.
- Incorporated open source projects ImGui and Recast.
- LUA scripting and implementation of bindings for C++.
- Design of system architecture.
- Cooperation with a 10-member team in daily basis.
- Communication with end users to define requirements.
- Conducted 10+ interviews.
- Build containerized services.
- Administration of Linux servers.

UNIVERSITY OF ATHENS | Software Engineering
2019 – 2020 | Athens, GR

- Implementation of gas-efficient smart contracts in Solidity, profiling and auditing.
- Implementation of development and testing environment for smart contracts in Python using Web3 interface.
- Test driven development.
- Daily stand-ups using Slack.

RESEARCH

UNIVERSITY OF ATHENS | Postgraduate Student
2020 | Athens, GR
Worked with Kostis Karantias, Prof. Aggelos Kiayias and Dr. Dionysis Zindros to create the first gas-efficient superlight client smart contract based on the NIPoPoW protocol.

NCSR DEMOKRITOS | Researcher
2019 | Athens, GR
Worked with Giorgos Bouritsas, Dr. Antonios Danelakis and Dr. Stelios Thomopoulos to create and architecture that leverages the detection of anomalous human trajectories using a Sequence-to-Sequence architecture.

PUBLICATIONS

Daveas S., Karantias K., Kiayias A. & Zindros D.: A Gas-Efficient Superlight Bitcoin Client in Solidity, ACM AFT 2020
Bouritsas G., Daveas S. Danelakis A. and Thomopoulos S.: Automated Real-time Anomaly Detection in Human Trajectories using Sequence to Sequence Networks, IEEE AVSS 2019